

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/IL2004/000616

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 G01N15/14

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, BIOSIS, IBM-TDB, EMBASE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

26 October 2004

Date of mailing of the international search report

12/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Koch, A

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JONES A R: "Light scattering for particle characterization" PROGRESS IN ENERGY AND COMBUSTION SCIENCE, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 25, no. 1, February 1999 (1999-02), pages 1-53, XP004151620 ISSN: 0360-1285	1-3,5,6, 15, 18-22, 24,26, 29,31, 32,36,37
Y	page 3, column 1, paragraphs 1,2 page 3, column 2, paragraph 5 page 10, column 2, paragraph 4 - page 11, column 1, paragraph 3 page 32, column 2, paragraphs 4,5 page 35, column 2, paragraphs 2,3 page 36, column 2, paragraph 2 - page 37, column 1, paragraph 2 figures 7,23-25	4,8-14, 16,17, 30,33-35
Y	PIESTUN RAFAEL: "Multidimensional Synthesis of Light Fields" 17 October 2001 (2001-10-17), - 1 November 2001 (2001-11-01) page 28, XP002302678 Retrieved from the Internet: URL:http://ece-www.colorado.edu/{piestun/2 8-32.PIESTUN.PDF> 'retrieved on 2004-10-26! page 28, column 3, line 1 - page 29, column 1, paragraph 2 page 30, column 2, paragraph 2 - page 30, column 3, paragraph 2	4,34,35
Y	MATIZEN Y E ET AL: "FORMATION OF NON-GAUSSIAN LIGHT BEAMS WITH THE AID OF A SPATIALLY INHOMOGENEOUS AMPLITUDE FILTER" SOVIET JOURNAL OF QUANTUM ELECTRONICS, AMERICAN INSTITUTE OF PHYSICS. WOODBURY, NY, US, vol. 17, no. 7, 13 January 1987 (1987-01-13), - 1 July 1987 (1987-07-01) pages 886-887, XP000709131 abstract page 887, column 1, paragraph 4 - column 2, paragraph 2	8-11
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ational Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>FRIEDMANN MICHAEL ET AL: "Surface Analysis Using Multiple Coherent Beams" ELECTRICAL AND ELECTRONICS ENGINEERS IN ISRAEL, 5 November 1996 (1996-11-05), - 6 November 1996 (1996-11-06) pages 537-540, XP002302679 cited in the application page 537, column 1, paragraph 1 - page 537, column 2, paragraph 1 page 538, column 2, paragraph IV - page 538, column 1, paragraph IV page 539, column 2, paragraph 2 page 540, column 1, paragraph 2 figure 4 &amp; Retrieved from the Internet: URL:<a href="http://ieeexplore.ieee.org/iel3/4282/12326/00567034.pdf?tp=&amp;arnumber=567034&amp;isnumber=12326&amp;arSt=537&amp;ared=540&amp;arAuthor=Friedmann%2C+M.%3B+Piestun%2C+R.%3B+Paquet%2C+E.%3B+Shamir%2C+J.%3B">http://ieeexplore.ieee.org/iel3/4282/12326/00567034.pdf?tp=&amp;arnumber=567034&amp;isnumber=12326&amp;arSt=537&amp;ared=540&amp;arAuthor=Friedmann%2C+M.%3B+Piestun%2C+R.%3B+Paquet%2C+E.%3B+Shamir%2C+J.%3B</a></p>	12-14, 17,33
Y	<p>FRIEDMANN MICHAEL ET AL: "Resolution enhancement by extrapolation of the optically measured spectrum of surface profiles" APPLIED OPTICS, vol. 36, no. 8, 10 June 1996 (1996-06-10), - 21 October 1996 (1996-10-21) XP002302680 cited in the application page 1747, column 1, paragraph 1 page 1748, column 1, line 21 - page 1749, column 1, line 9</p>	16
Y	<p>PIESTUN RAFAEL ET AL: "Pattern generation with an extended focal depth" APPLIED OPTICS, vol. 37, no. 23, 10 August 1998 (1998-08-10), - 20 April 1998 (1998-04-20) pages 5394-5398, XP002302681 cited in the application paragraph '0004!</p> <p style="text-align: center;">----- -/--</p>	30

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>SPEKTOR BORIS ET AL: "Dark beams with a constant notch" OPTICS LETTERS, 'Online! vol. 21, no. 7, 12 December 1995 (1995-12-12), pages 456-458, XP002302682 Retrieved from the Internet: URL:http://ol.osa.org/abstract.cfm?id=4475 8&gt; 'retrieved on 2004-10-25! cited in the application page 456, column 1, paragraph 2 - page 456, column 1, paragraph 3 figures 1-3</p>	4
A	<p>WO 98/50779 A (HOLCOMB MATTHEW J) 12 November 1998 (1998-11-12)</p>	

# INTERNATIONAL SEARCH REPORT

Information on patent family members

ational Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9850779	A	12-11-1998	CA 2288880 A1	12-11-1998
			EP 1007944 A1	14-06-2000
			JP 2001524215 T	27-11-2001
			US 6084671 A	04-07-2000
			WO 9850779 A1	12-11-1998
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